

ESD Geothermal Publications List

October 2003

Christenson, B.W., Mroczek, E.K., Kennedy, B.M., van Soest, T. Stewart, M.K. and Lyon, G. Ohaaki Reservoir Chemistry: Characteristics of an Arc-type Hydrothermal System in the Taupo Volcanic Zone, New Zealand. *Journal of Volcanology and Geothermal Research*, 115, 53-82, 2002, LBNL-48570.

Daley, T.M., Schoenberg, M., Rutqvist, J. and Nihei, K. Coupled Modeling of Time-Lapse Change in Seismic Propagation and Permeability in Fractured Reservoirs due to Fluid Injection, Paper to be presented at 2003 Fall meeting of the American Geophysical Union, December 8-12, 2003, San Francisco, CA, LBNL-53753 (Abs.)

Dobson, P.F., Kneafsey, T.J., Hulen, J. and Simmons, A. Porosity, Permeability, and Fluid Flow in the Yellowstone Geothermal System, Wyoming. *Journal of Volcanology and Geothermal Research*, 123, 313-324, 2003, LBNL-50044.

Dobson, P.F., Salah, S., Spycher, N., and Sonnenthal, E. Simulation of Water-Rock Interaction in the Yellowstone Geothermal System using TOUGHREACT. In Proc. 2003 TOUGH Workshop (on a CD), May 12-14, Berkeley, CA, LBNL-52494, 2003.

Evans, W.C., Ingebritsen, S.E., Wicks, C.W., Mariner, R.H., Kennedy, B.M. and van Soest, M.C. Magma Intrusion Rate in the Three Sisters Area of the Central Oregon Cascades Inferred by Different Methods. Paper presented at the Geol. Soc. Am. Cordilleran Section, May 13-15, 2002, Corvallis, OR, 2002, LBNL-50642 Abs.

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Evans, W.C., Sorey, M.L., Cook, A.C., Kennedy, B.M., Shuster, D.L., Colvard, E.M., White, L.D. and Huebner, M.A. Tracing and Quantifying Magmatic Carbon Discharge in Cold Groundwaters: Lessons Learned from Mammoth Mountain, USA. *Journal of Volcanology and Geothermal Research*, 114, 291-312, 2002, LBNL-50610.

Foxall, B. and Vasco, D. Inversion of Synthetic Aperture Radar Interferograms for Sources of Production-Related Subsidence at the Dixie Valley Geothermal Field. Proc. Twenty-Eighth Workshop on Geothermal Reservoir Engineering, Stanford Geothermal Program Report SGP-TR-173, pp. 181-187, 2003.

Gritto, R. and Majer, E.L. Seismic Methods for Resource Exploration in Enhanced Geothermal Systems. *Geothermal Resources Council Transactions*, 27 (in print), 2003, LBNL-52967.

Gritto, R., Daley, T.M. and Majer, E.L. Integrated Seismic Studies at the Rye Patch Geothermal Reservoir, Nevada. *Geothermal Resources Council Transactions*, 26, 431-435, 2002, LBNL-50590.

Gritto, R., Daley, T.M. and Majer, E.L. Estimating Subsurface Topography from Surface-to-Borehole Seismic Studies at the Rye Patch Geothermal Reservoir. *Geothermics*, 32, 275-295, 2003, LBNL-50490.

Hickman, R.G., Dobson, P.F., van Gerven, M., Sagala, B. and Gunderson, R.P. Tectonic and Stratigraphic Evolution of the Sarulla Graben Region, North Sumatra, Indonesia. Paper accepted for publication in *Journal of Asian Earth Sciences*, 2003, LBNL-51196.

Kim, J.G. and Finsterle, S. Application of Automatic Differentiation for the Simulation of Nonisothermal, Multiphase Flow in Geothermal Reservoirs. Proc. Twenty-Seventh Workshop on Geothermal Reservoir Engineering, Stanford Geothermal Program Report SGP-TR-171, pp. 126-131, 2002.

Kiryukhin, A., Xu, T., Pruess, K. and Slovtsov, I. Modeling of Thermo-Hydrodynamic-Chemical Processes: Some Applications to Active Hydrothermal Systems. Proc. Twenty-Seventh Workshop on Geothermal Reservoir Engineering, Stanford Geothermal Program Report SGP-TR-171, pp. 140-147, 2002, LBNL-51239.

Kiryukhin, A., Xu, T., K. Pruess, K. Apps, J. and Slovtsov, I. Thermal-Hydrodynamic-Chemical (THC) Modeling based on Geothermal Field Data. *Geothermics*, 33 (in press), 2004.

Kiryukhin, A.V. Numerical Modeling as a Tool in Understanding TH (Thermo-Hydrodynamic) Processes in Geothermal Systems (Kamchatka and Kurile Islands Examples). Proc. International Groundwater Symposium, Berkeley, CA, March 25-28, 2002, 12 p. LBNL-51240.

Kneafsey, T.J., Pruess, K., O'Sullivan, M.J. and Bodvarsson, G.S. Experience in Geothermal Reservoir Simulation to Enhance Confidence in Thermohydrologic Predictions for Nuclear Waste Disposal. Paper submitted to *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management*, 2002, LBNL-48124.

Lee, K.H., Kim, H.J. and Wilt, M. Efficient Imaging of Single-Hole Electromagnetic Data. *Geothermal Resources Council Transactions*, 26, 399-404, 2002, LBNL-50010.

Lippmann, M.J. Geothermal and the Electricity Market in Central America. *Geothermal Resources Council Transactions*, 26, 37-42, 2002, LBNL-50931.

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Lippmann, M.J., Truesdell, A.H., Rodríguez, M.H. and Pérez, A. Response of Cerro Prieto II and III to Exploitation. *Geothermics*, 33 (in press), 2004, LBNL-51748.

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Pruess, K. Numerical Simulation of Multiphase Tracer Tests in Fractured Geothermal Reservoirs. *Geothermics*, 31, 475-499, 2002, LBNL-48657.

Pruess, K. Mathematical Modeling of Fluid Flow and Heat Transfer in Geothermal Systems - An Introduction in Five Lectures. Course presented at UNU Geothermal Training Programme, Reykjavik/Iceland, September 2002, LBNL-51295.

Rutqvist, J., Wu, Y.S., Tsang, C.F. and Bodvarsson, G.S. A Modeling Approach for Analysis of Coupled Multiphase Fluid Flow, Heat Transfer, and Deformation in Fractured Porous Rock. *International Journal of Rock Mechanics and Mining Sciences*, 39, 429-442, 2002, LBNL-50138.

Shan, C. and Pruess, K. EOSN – A TOUGH2 Module for Noble Gases. Lawrence Berkeley National Laboratory Report LBNL-52379, 2003.

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Schoenberg, M., Nihei, K., Daley, T.M., Rutqvist, J. and Majer, E.L. Fractured reservoirs: An analysis of Coupled Elasto-Dynamic and Permeability Changes due to Pore Pressure Variation. Paper presented at the Society of Exploration Geophysicist: Pore Pressure Workshop, Galveston, TX, May 12-17, 2002, LBNL-50697.

Shevenell, L., Garside, L., Arehart, G., van Soest, M.C. and Kennedy, B.M. Geochemical Sampling of Thermal and Nonthermal Waters in Nevada to Evaluate Potential for Resource Utilization. *Geothermal Resources Council Transactions*, 26, 501-505, 2002, LBNL-50647.

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